

# ABSTRACT OF THE DISCLOSURE

A CCD scanner is provided with a regulating circuit, which stores electric-current set values of LED elements of respective colors. The regulating circuit also stores  
5 desired values corresponding to optimum light amounts of the LED elements of the respective colors. By utilizing the electric-current set value and the desired value, binary search is performed for the LED elements every color. During the binary search, the light amount of the LED element is  
10 regulated, and an electric-current value thereof is determined so as to obtain the optimum light amount. By using the determined electric-current value, the LED element is turned on to read an image.